

REMARKS-General

1. The amended independent claim 1 incorporates all structural limitations of the original claim 1 and includes further limitations previously brought forth in the original claim 2, including any intervening claims. The amended independent claim 91 incorporates all structural limitations of the original claim 1 and includes further limitations previously brought forth in the original claim 94, including any intervening claims. In other words, the amended independent claims 1 and 91 are rewritten from the original claims 2 and 94 in independent form respectively. The claims 2 and 92-94 are deleted in this application. All claims 1, 3-91, and 95-107 are submitted to be of sufficient clarity and detail to enable a person of average skill in the art to make and use the instant invention, so as to be pursuant to 35 USC 112.

Response to Rejection of Claims 1-90, 94-101/91, 93, and 102-107 under 35USC112

2. The applicant submits that the amended claims 1, 3-91, and 95-107 particularly point out and distinctly claim the subject matter of the instant invention, as pursuant to 35USC112.

Response to Rejection of Claims 1-107 under Obviousness Double Patenting

3. The applicant submits a terminal disclaimer herewith, in compliance with 37CFR1.321(c), to disclaim the terminal part of the statutory term of any patent granted on instant application which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. 154 to 156 and 173, as presently shortened by any terminal disclaimer, of prior Patent No. 6,415,223, in order to overcome the rejection of the claims 1-107 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-89 of the U.S. Patent No. 6,415,223.

Regarding to Rejection of Claims 1, 14, 20, 21, and 91-93 under 35USC102

4. The Examiner rejected claims 1, 14, 20, 21, and 91-93 as being anticipated by Breed et al. (US. 6,370,475).

5. The applicant respectfully submits that the amended independent claims 1 and 91 are rewritten from the original claims 2 and 94 in independent form respectfully, wherein the original claims 2 and 94 are not rejected under 35USC102(e). Accordingly, the amended independent claim 1 or 91 of the instant invention does not read upon the Breed patent. Accordingly, Breed fails to anticipate the distinctive features of the instant invention as follows:

(a) In amended claim 1, Breed fails to anticipate the main IMU based self-contained/interruption-free positioning module comprises an inertial measurement unit (IMU), a north finder, a velocity producer producing velocity data in a body frame of said user and a navigation processor.

(b) In amended claim 91, Breed fails to anticipate the steps of:

(c.1) sensing an earth's magnetic field to measure a heading angle of the user by a magnetic sensor,

(c.2) measuring a relative velocity of the user relative to a ground by a velocity producer to produce a measured velocity, and

(c.3) measuring altitude measurement of the user to form a mean sea level height of the user in digital manner; and

(c.4) blending the digital angular increments and velocity increments signals, the heading angle, the relative velocity of the user relative to the ground, the mean sea level height and the GPS positioning data to produce optimal positioning data.

6. Applicant believes that for all of the foregoing reasons, all of the claims are in condition for allowance and such action is respectfully requested.

The Cited but Non-Applied References

7. The cited but not relied upon references have been studied and are greatly appreciated, but are deemed to be less relevant than the relied upon references.

8. A check in an amount of US\$65.00 is submitted herewith to pay the terminal disclaimer. This amount is believed to be correct; however, the Commissioner is hereby

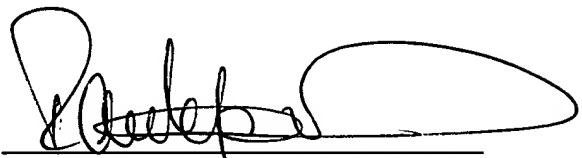
authorized to charge any deficiency or credit any overpayment to Deposit Account No. 502111.

9. With regards to priority claim of the instant invention, the applicant respectfully submits a Petition for Unintentionally Delay Claim for Priority Under 35 U.S.C 119, 120, 121, and 365(c).

10. In view of the above, it is submitted that the claims are in condition for allowance. Reconsideration and withdrawal of the rejection are requested. Allowance of claims 1, 3-91, and 95-107 at an early date is solicited.

11. Should the Examiner believe that anything further is needed in order to place the application in condition for allowance, he is requested to contact the undersigned at the telephone number listed below.

Respectfully submitted,



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CERTIFICATE OF MAILING

I hereby certify that this corresponding is being deposited with the United States Postal Service by First Class Mail, with sufficient postage, in an envelope addressed to "Mail Stop amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" on the date below.

Date: 06/20/2006



Signature: _____
Person Signing: Raymond Y. Chan